

CONTRACTOR SELECTION CRITERIA FOR

“Analysis Utilizing Solar Ultraviolet (UV-B) Radiation Data from the EPA Solar Ultraviolet Radiation Monitoring Network”

The Government will award a fixed price contract to the responsible offeror who conforms to the solicitation and is most advantageous to the Government, cost or price and other factors considered. For this solicitation, cost and technical quality are considered equal. The Government's primary objective is to obtain the best value based on the requirement and the evaluation factors set forth in the solicitation.

1. Demonstrated Technical Experience: The proposal shall clearly demonstrate through current and prior research publications, contracts, grants, etc. that the proposer has extensive relevant experience in the analysis of environmental data collected from networks of monitoring equipment, with an emphasis on networks composed of solar ultraviolet radiation monitoring instruments. The proposer should have experience in the mathematical/statistical analysis of the data obtained from such monitoring/sensor networks. The proposer should also have an understanding/expertise in one or more of the following areas: radiative transfer modeling with an emphasis in the ultraviolet wavelength region; analysis of trends in UV-B flux data; atmospheric composition; absorption of ultraviolet wavelengths by materials (i.e, carbon, particulate matter, etc.); MIE scattering; comparison of measured environmental parameters to conceptual and computational models describing those parameters; determination of key factors/parameters affecting trends in environmental data; direct versus indirect exposure to UV radiation. The proposal shall demonstrate an approach that recognizes the importance of key factors/parameters affecting UV-B flux such as: solar angle; time of day; time of year; latitude; total column ozone; atmospheric pollutant levels; aerosol optical depth; visibility; albedo; clouds; haze; aerosols, ultraviolet wavelength(s).

2. Technical Expertise and Resources: The proposal shall demonstrate that the offeror has the required professional skill levels and technical expertise in environmental data analysis, with an emphasis in solar ultraviolet radiation monitoring, statistical data analysis, as well as having access to the necessary data bases, computational software and necessary equipment to complete all requirements of the project.

3. Technical Approach: Offerors shall present their approach to the analysis of and the use of the solar ultraviolet radiation data in enough detail so as to demonstrate a complete understanding of the technical requirements and the specific methods to be used in meeting all objectives of this procurement, including considerations of procedures to be followed to ensure that consistency along with a logically supportable, well-defined approach is used throughout the data analysis process.

4. Quality: Demonstrated ability of offeror to process and analyze environmental data collected from monitors/sensors in a manner which ensures that the integrity of the data is preserved by use of a well-defined methodology/process/system.

5. Past Performance: Please describe several projects that your organization has completed or is currently performing that are similar to this procurement in terms of scope, size, and expertise required. Describe the relevance of this past performance to this procurement, what your organization has gained from this past performance, and how it would assist you in the execution of this requirement. Provide two references (name, title, phone number, e-mail address) from each project. References should be able to provide first hand information on your performance.